8(0)

807/105-59-5-24/29

AUTHORS:

Chilikin, M. G., Larionov, A. N., Venikov, V. A., Chechet, Goryainov, F. A., Drozdov, N. G., Petrov, I. I.

TITLE:

Professor G. N. Petrov

PERIODICAL:

Elektrichestvo, 1959, Nr 5, pp 91-92 (USSR)

ABSTRACT:

This is a short curriculum vitae on the occasion of his 60th birthday and after 35 years of scientific, pedagogic and engineering activity. Petrov was born in May 1899. He finished his studies at the Department of Electrical Engineering of the MVTU (Moscow Higher Technical School) in 1924, and remained then at the Department. From 1924-1941, his main activity was closely connected with the development of transformer building. (VEI (All-Union Electrotechnical Institute) and Moskovskiy transformatornyy zavod (Moscow Transformer Plant)). He solved a number of important theoretical and practical problems. His book entitled "Transformatory" (Transformers) was published in 1934. In 1933 he became Professor, in 1937 he received his degree as a Doctor of Technical Sciences. In 1942 he was granted the honorary title of a Meritorious Scientist and Technician of the RSFSR. For more than 20 years, he conducted the Chair of Electric Machines at the Moskovskiy

Card 1/3

Professor G. N. Petrov

807/105-59-5-24/29

ordena Lenina energeticheskiy institut (Moscow Order of Lenin Power Engineering Institute). From 1932-34 he was Dean of the Department of Electric Machine Building, and from 1955-57 Dean of the Department of Electromechanics at the MEI. (Moscow Power Engineering Institute). During the war, he was Director of the MEI, and for 12 years Deputy Director for Scientific and Pedagogic Work. He published a lot of papers on electric machine building. He is a Member of the Moskovskoye pravleniye Nauchno-tekhnicheskogo obshchestva energeticheskoy promyshlennosti (Moscow Executive Committee of the Scientific and Technical Society of the Power Industry), and a Member of the Central Executive Committee of the same Society. In 1950 he was elected Deputy of the Moskovskiy gorodskoy sovet deputatov trudyashchikhsya (Moscow City Council of the Workers' Deputies). He is President of the Provisional Commission for Electric Machines at the GNTK SM SSSR, and a Member of the Uchenyy sovet nauchno-issledovatel'skogo instituta elektropromyshlennosti (Scientific Council of the Scientific Research Institute of Electrical Industry). He is President of the Otdeleniye energeticheskikh i mashinostroitel nykh nauk nauchno-tekhnicheskogo soveta Ministerstva vysshego obrazovaniya SSSR (Department of Power Engineering and Machine Building Sciences

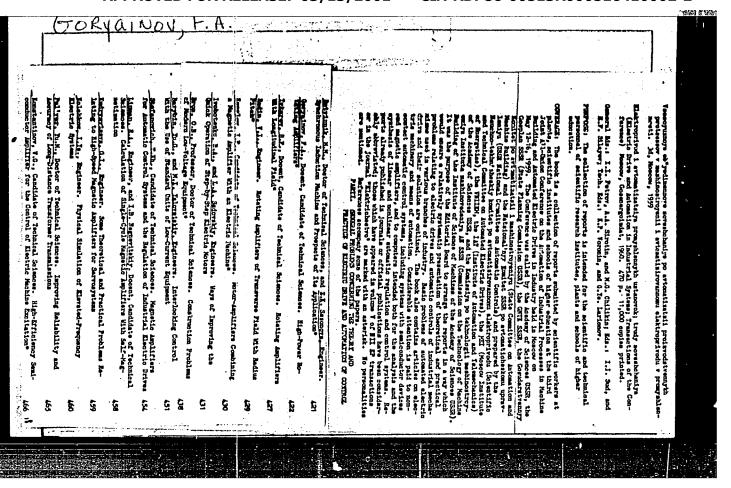
Card 2/3

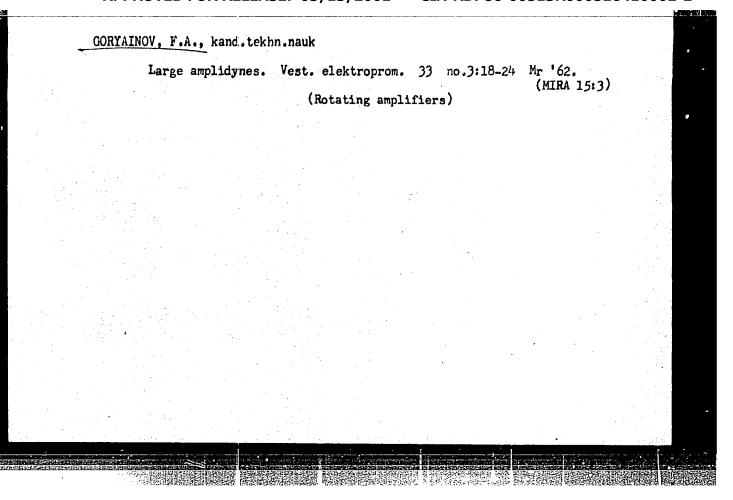
Professor G. N. Petrov

801/105-59-5-24/29

of the Scientific-technical Council at the Ministry of Higher Education of the USSR) and Chief Editor of the periodical "Nauchnyye doklady vysshey shkoly" for the section "Elektromekhanika i avtomatika", and a member of the editorial staff of the periodical "Vestnik elektropromyshlennosti". For many years he was President of the Experts' Commission of the VAK of Electrotechnics. From 1947-53 he was Chief Editor of the periodical "Elektrichestvo". He bears the following orders: Order of Lenin, "Red Star", "Badge of Honor" and various medals. Twice he received the Stalin Prize for papers on the building of transformers. There is 1 figure.

Card 3/3





KUZNETSOV, B.I.; GURIN, Ya.S.; GORYAINOV, F.A., prof., red.

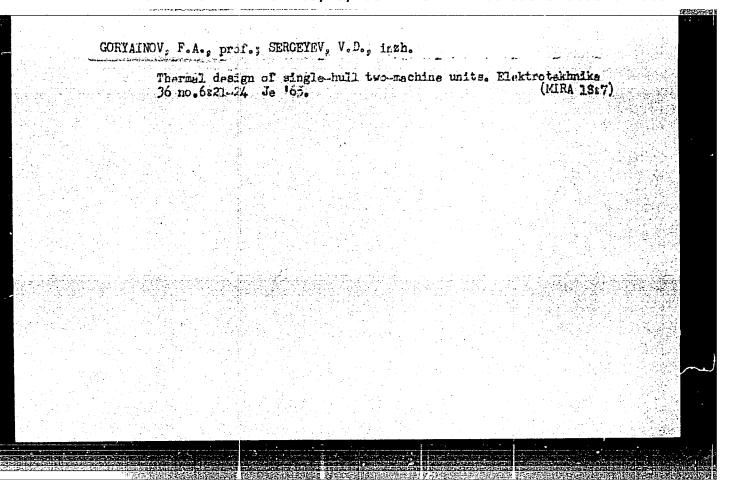
[Electrical machinery; d.c. machines, asynchronous motors, 1961-1963] Elektricheskie mashiny; mashiny postoiannogo toka, asinkhronnye elektrodvigateli, 1961-1963. Moskva, 1964. 263 p. (MIRA 18:5)

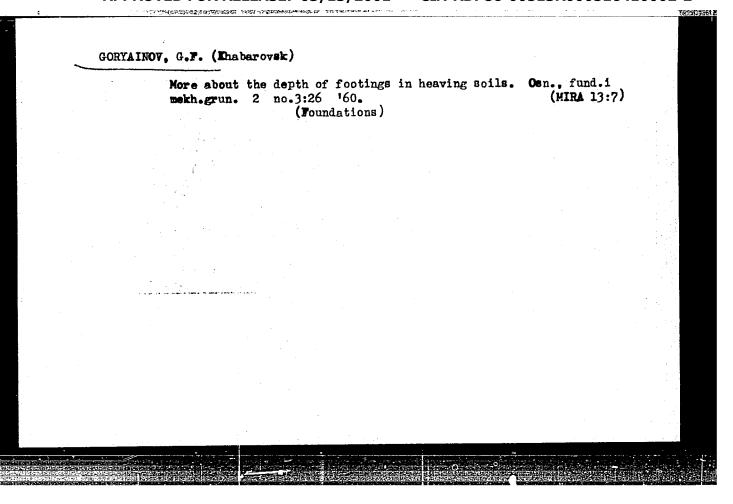
1. Akademiya mauk SSSR. Institut nauchnoy informatsii.

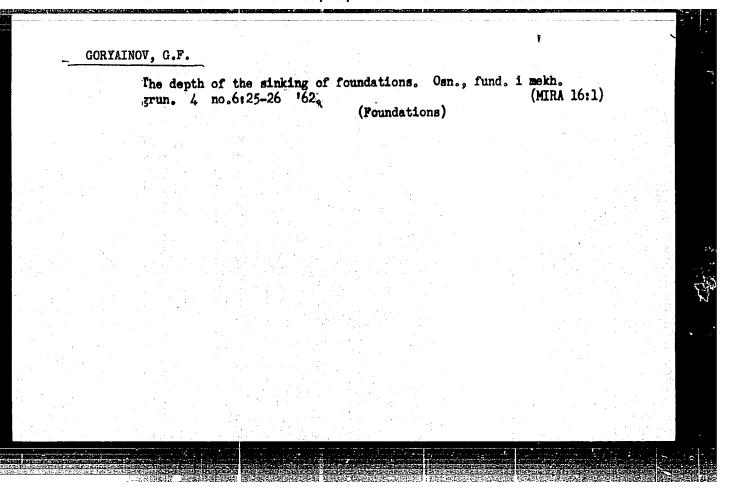
GORYAINOV, F.A., prof.; TOKAREV, B.F., kand.tekhn.nauk

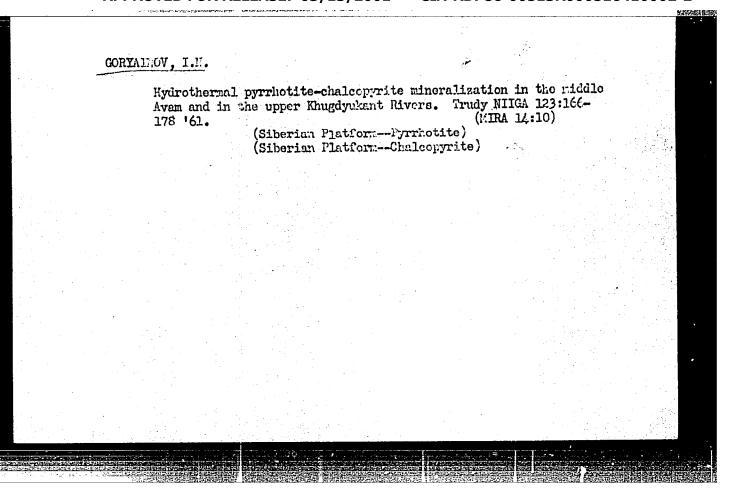
Power limit of an amplidyne. Elektrotekhnika 36 no.1:8 Ja '65.

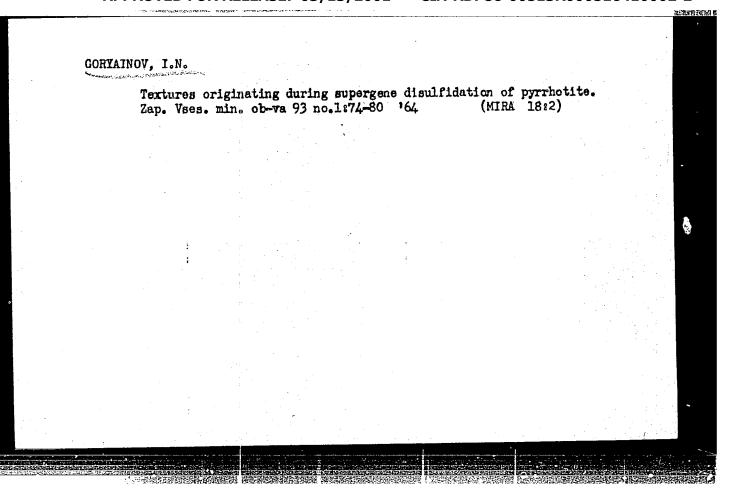
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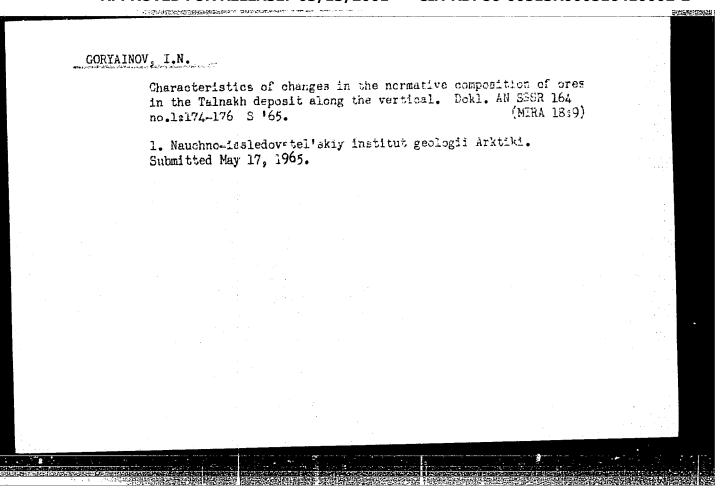




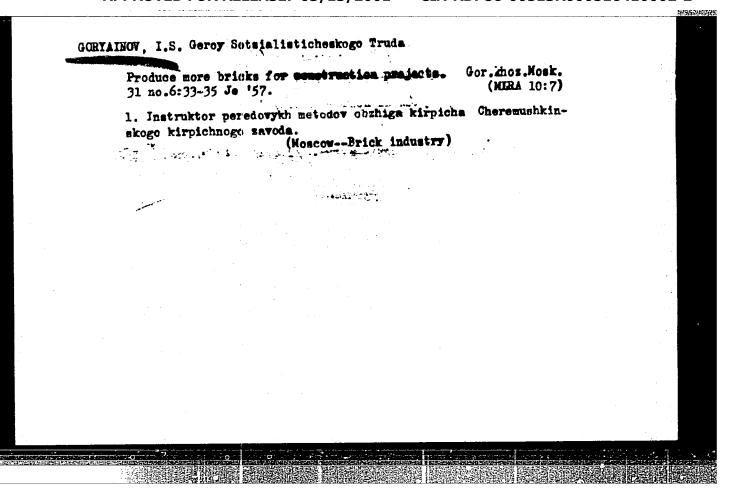


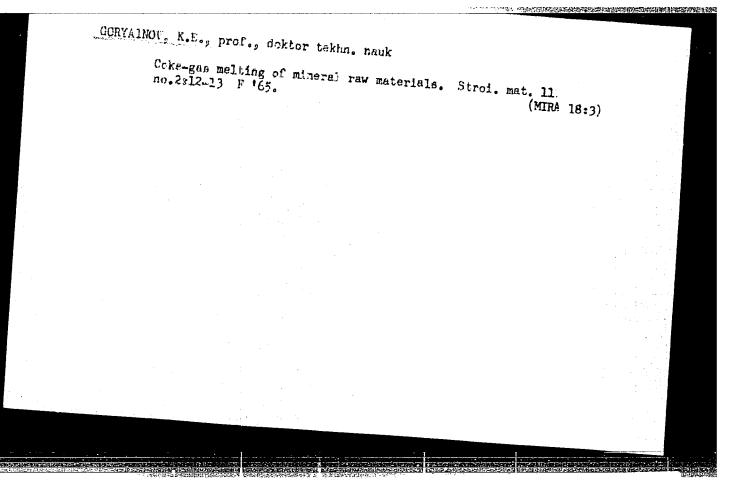


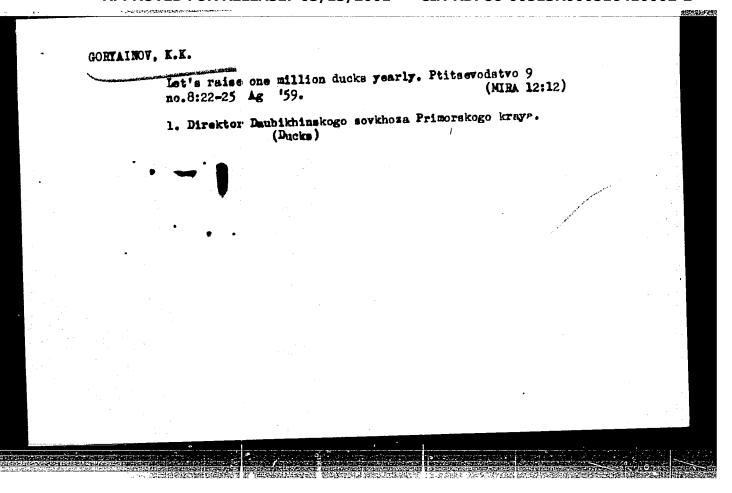


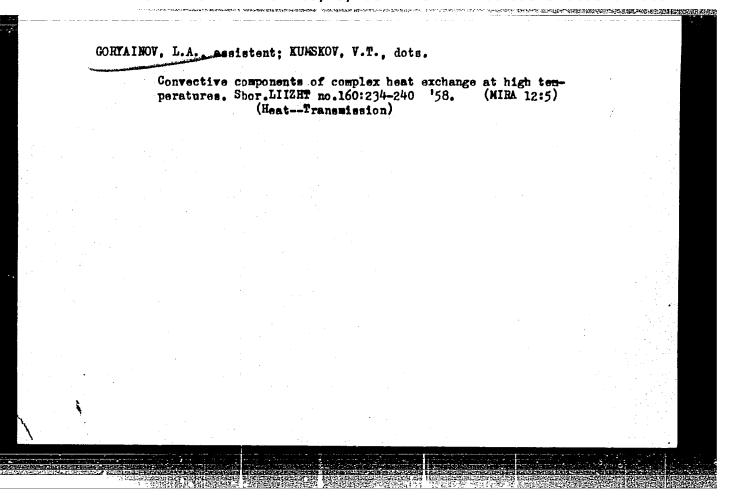


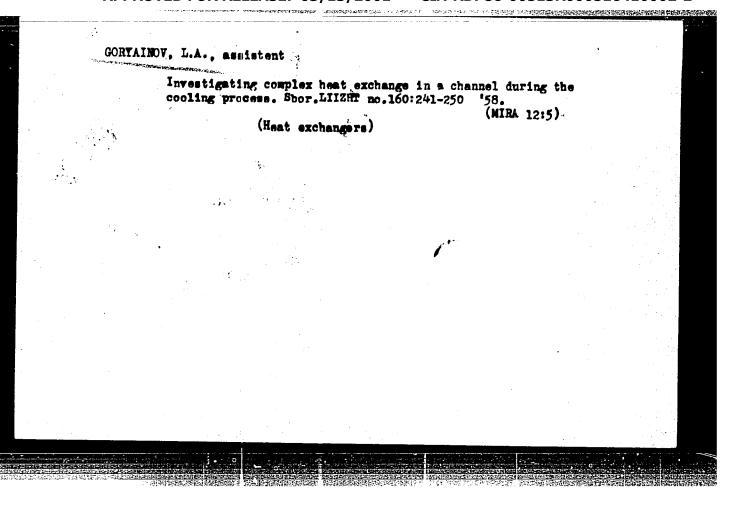
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	skogo kirpichnogo zavoda. (Hoffmenn kiln) (Brickmaking)	
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GCRYAINOV, L. A., Candidate of Teon Sci (diss) -- "Investigation of the complex heat exchange in a cooled channel". Moscow, 1959. 12 pp (Min Transportation USSR, Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin), 150 copies (KL, No 20, 1959, 112)

GORYAINOV, L.A., insh.; KUMSKOV, V.T., kand. tekhn. nauk

Calculating the radiant component of combined heat exchange. Trudy
MIIT no.112:130-140 '59. (MIRA U3:2)

(Heat—Radiation and absorption)

KUMSKOV, V.T., kandtekhn.nauk, dotsent; GORYAINOV, L.A., assistent

Concerning the features of complex heat exchange. Trudy MIIT
no.125:104-121 '60.

(Heat-Transmission)

(Heat-Transmission)

24,5200

S/649/61/000/139/008/018 I028/I228

AUTHOR:

Goryainov, L. A.

TITLE:

On the investigation of complex heat exchange in a cooled duct

SOURCE:

Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139 1961. Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy

konferentsii, 101--105

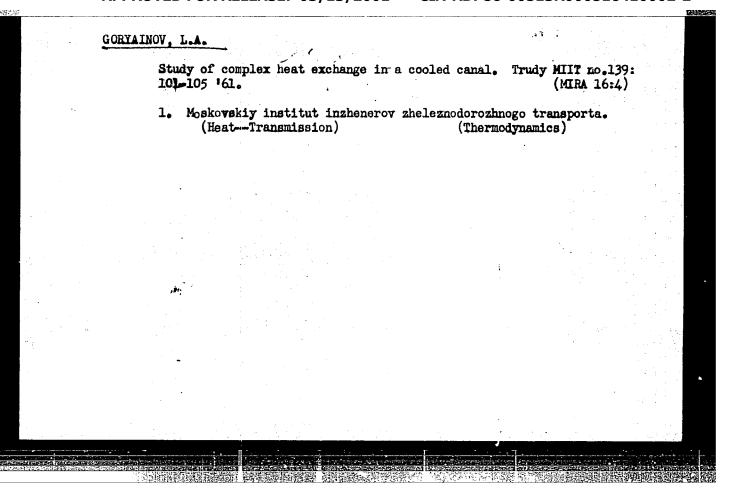
TEXT: The paper treats the case of complex heat exchange (defined as the simultaneous heat transfer by convection and radiation from a moving radiant medium) in the absence of combustion processes, a case usually overlooked. An invariant relationship, obtained by similitude methads from the differential equations describing the motion and the heat exchange of a radiant medium, is presented, and experimental work conducted for the elucidation of this implicit relationship at the MIIT is described. It is found that the ratio $\alpha_{\text{tot}}/\alpha_{\text{conv}}$, where $\alpha_{\text{conv}} = \text{coefficient}$ of heat transfer by convection, $\alpha_{\text{tot}} = \alpha_{\text{conv}} + \alpha_{\text{rad}} = \text{total coefficient}$ of heat transfer, is practically constant. Personalities mentioned are V. N. Adrianov and S. N. Shorin.

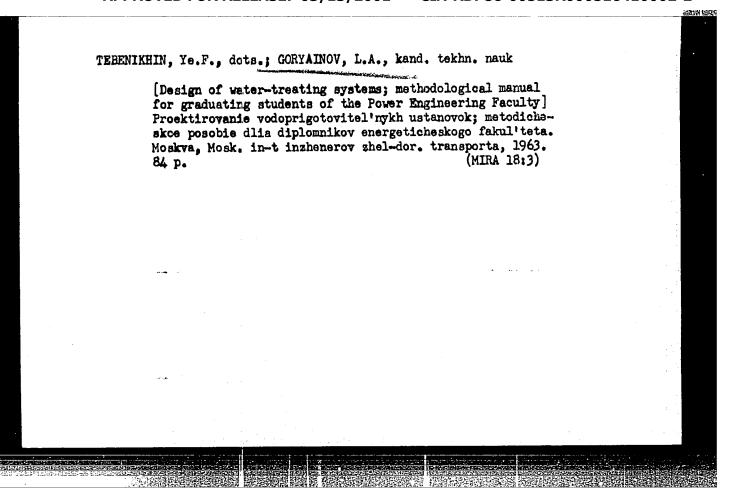
B

ASSOCIATION: Moskosvkiy institut inzhenerov zheleznodorozhnogo transporta (Moscow Institute of

Railway Transport Engineers)

Card 1/1





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ACCESSION NR: AT501648L	UR/2649/65/000/189/0059/0067.3.2.	
AUTHOR: Garyainov, L.	3/ → 77-1	
TITLE: Methods for analy	zing complex heat exchange into its separate components	
1985. Issledovaniye teplo dlya polucheniya polupriy	inzhenerov zheleznodorozhnego transporta. Trudy, no. 189, obmena v teploenergeticheskikh ustanovkakh i v ustanovkakh odnikovykh materialov (Investigation of heat exchange in equipment for producing semiconductor materials), 59-67	
TOPIC TASS: heat exchang		
change, evaluates them in tional investigation. A change is given. Methods heated air is blown throu are made for obtaining the	xamines existing methods of analyzing complex heat ex- itically and proposes several questions, which demand addi- preliminary discussion of some regularities of heat ex- discussed include: 1) the forced air method in which gh the experimental section and the necessary measurements e invariant dependence of convective heat exchange; 2) the	
lauge of the laure bureau to the let	olecular temperature of the medium near the heat sensing meter method based on measurements of the overall heat flux	
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ACCESSION NR: AT5016484	}/ PF(n)-2/EHG(m)/	0109 4/
AUTHOR: Goryainor, L. A	; Beylin, V. I.; Pavlenko, V. A.	40 B+1
SOURCE: Moscow. Institut 1965. Issledovaniye teplo dlya polucheniya poluprov	inzhenerov zheleznodorozhnogo transporta. Trudy, obmena v teploenergeticheskikh ustanovkakh i v ust odmikovykh materialov (Investigation of heat exchan equipment for producing semiconductor materials)	ps no. 189, ancvkakh
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TOPIC TAGS: Reymolds num ABSTRACT: This article e various approaches to the	ber, heat exchange, thermodynamic analysis xamines certain peculiarities which take place dur determination of the Reynolds number. The numeric r are calculated from the formulas:	
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ACCESSION NR: AT5016484		
TO CHE KINGHETE VI	of the fluid in m/sec; d is the decisive dimension in scosity of the fluid in m ² /sec; u is the dynamic vis-	
the cross section of the chan	m; 6 is the mass flow of the fluid in kg/sec; f is	
lenting in all cases. If	the physical parameters reverse two expressions are not	
by (1) and (2) will differ.	Formulas are derived molecular above.	
and augustes are Stagit fo II'l	ustrate the use of these formulas. It is recommended ed for forced airflow since there is a smaller scatter.	
When the physical parameters temperature, the values of Recording to linear velocity and experimental points when Re has: 3 figures and 12 formulations	relate to a temperature which different from unity. relate to a temperature which differs from the flow and invariant relationships differ when finding Re ac- d according to mass flow. There is less scatter of the s calculated according to linear velocity. Orig. art.	
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Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 13, p 253 (USSR)

AUTHORS:

Goryainov, L.I., Kumskov, V.T.

TITLE:

On the Convective Component of a Complex Heat Exchange at High Temperatures 2

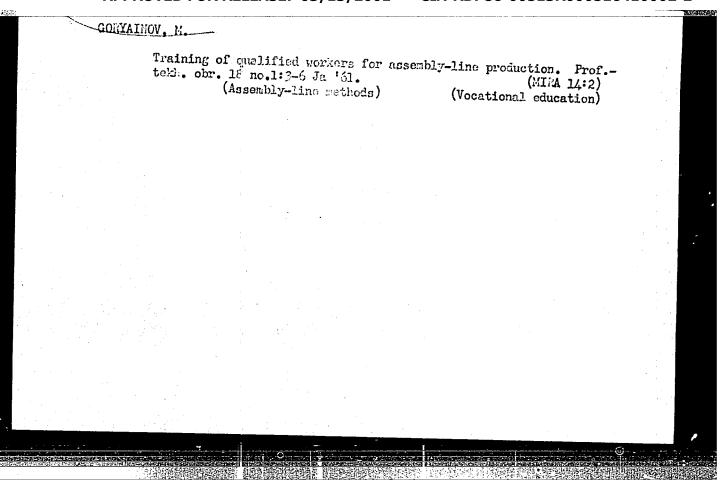
PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp., 1958, Nr 160, pp 234 - 240

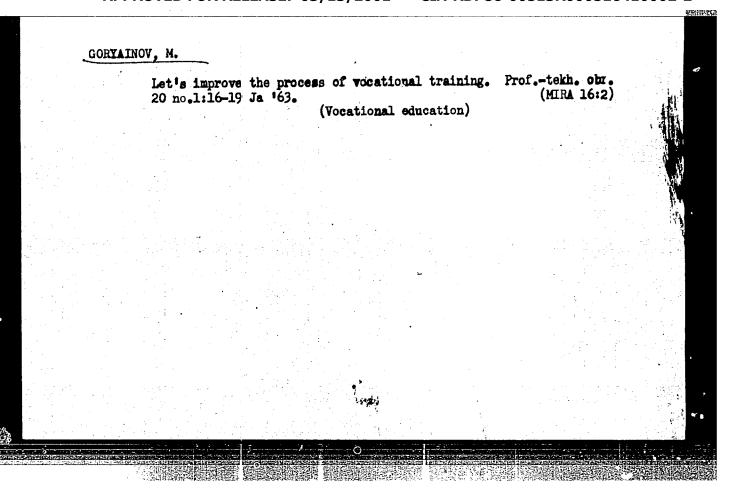
ABSTRACT:

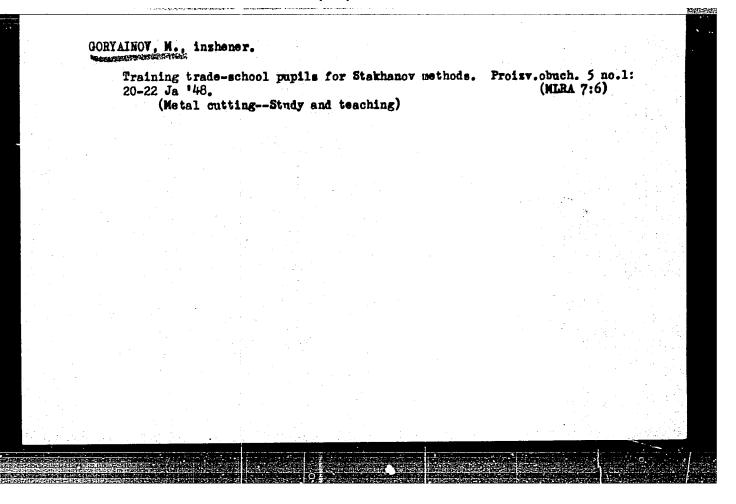
It has been found that the equations of convective heat emission, derived on the basis of the generalization of experimental data obtained at relatively low temperatures, cannot be applied without experimental checking to the calculation of heat emission in the complex process of heat exchange at relatively high temperatures; if the physical parameters are referred to the average temperature of the flow. In the application of the mentioned equations corrections must be introduced, e.g. in the form of a temperature simplex. It has been noted that the described method of using the equations of convective heat emission is suitable for the calculation of heat emission in the combustion chambers of boilers, in gas turbines and other heat-exchanging installations.

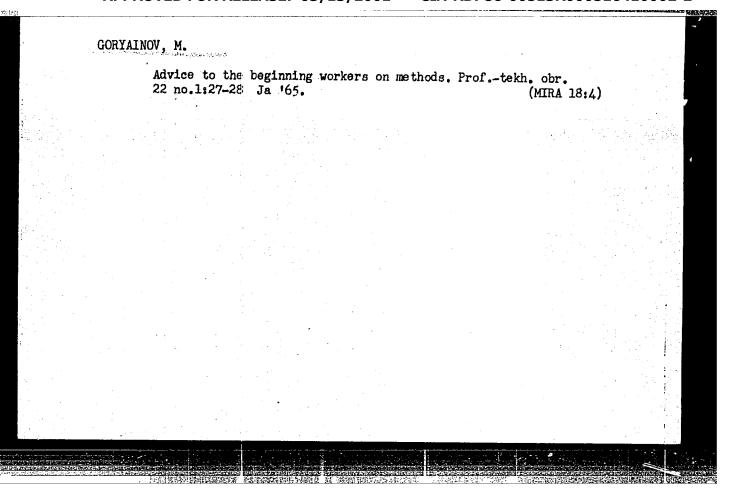
From the author's summary

Card 1/1

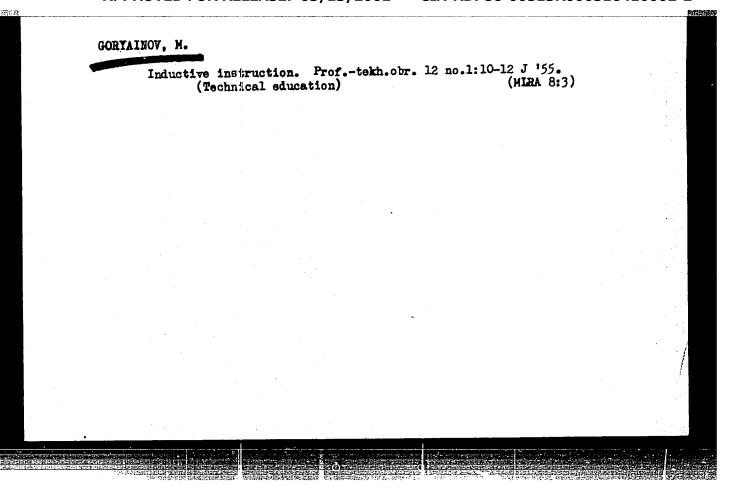


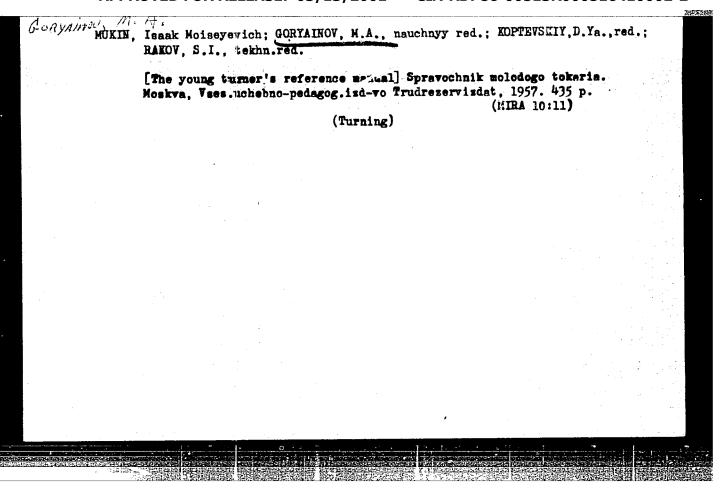






N/5 741.416 GORYAINOV, MIKHAIL ABRAMOVICH .G67 1955 METODIKA PROIZDOVSTVENNOGO OBUCHENIYA TOKAREY-UNIVERSALOV (METHODS OF PRODUCTION TRAINING IN UNIVERSAL LATHE TURNING) 12D. 2., PERER. 1 DOP. MOSKVA, TRUDREZERVIZDAT, 1955. 278, (2) P. ILLUS., DIAGRS. BIBLIOGRAPHY: P. 277-(279)





MUKIN, Isaak Moiseyevich; GORYAINOV, M.A., nauchnyy red.; LUKASHUK, V.A., red.; RAKOV, S.I., tekhn.red.

[Manual for young lathe operators] Spravochnik molodogo tokaria.

Izd.2., ispr. 1 dop. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1959, 445 p. (MIRA 13:6)

(Turning--Handbooks, manuals, etc.)

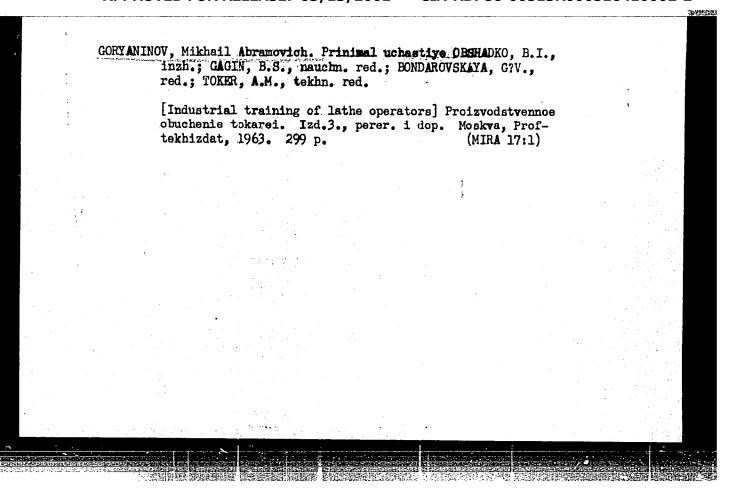
MUKIN, Isaak Moiseyevich; CORYAINOV, M.A., nauchnyy red.; ROMANOV, B.V., red.; BARANOVA, N.N., tekhn. red.

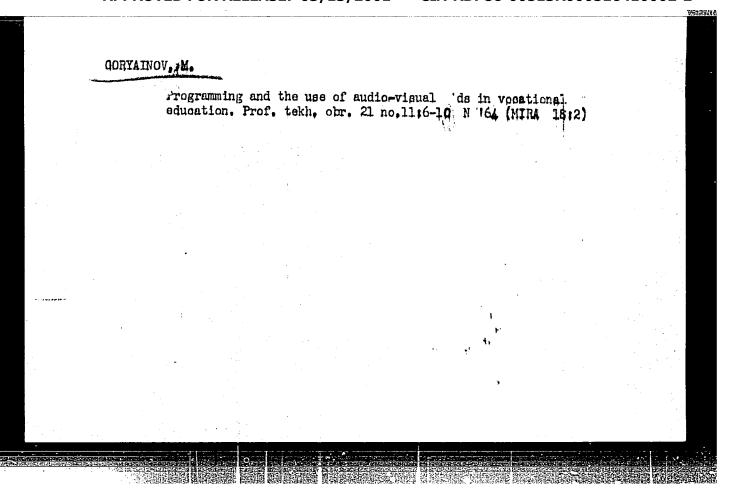
[Manual for a young lathe operator] Spravochnik molodogo tokaria.
3., ispr. i dop. izd. Moskva, Proftekhizdat, 1962. 479 p.

(NIRA 15:6)

(Lathes)

(Turning)

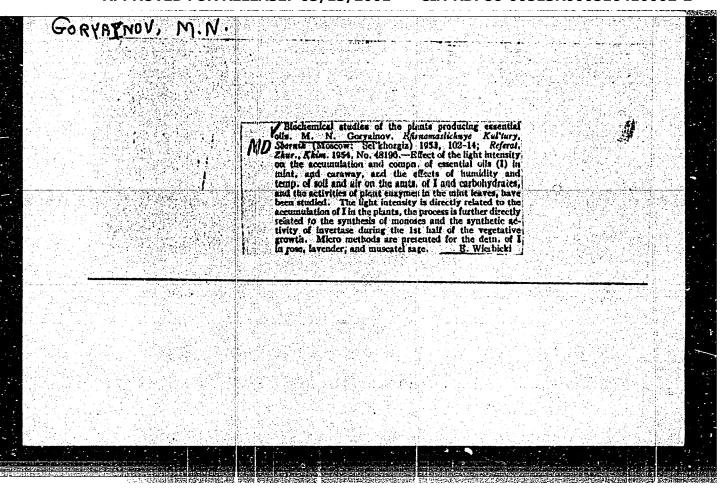




GORYAINOV, M.N. Cand. Agricult. Sci.

Dissertation: "Fertilizer and the Fat-Forming Process in the Seeds of a Sunflower." All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Scil Science meni K.K. Gedroyets, 25 Nov 47.

So: Vechernyaya Moskva, Nov, 1947 (Project #17836)



43428

S/169/62/000/011/010/077 D228/D307

AUTHORS:

Levshin, A.L. and Goryainov, N.N.

TITLE:

Longitudinal seismic wave propagation in sandy rocks

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1962, 44-45, abstract 11A266 (Izv. vyssh. ucheb. zavedeniy, Geol. i razvedka, no. 4, 1962, 113-125)

TEXT: A study is made of the possibilities of determining the ground-water level in deserts through using seismic exploration. Some questions of elastic wave propagation in porous media are studied in addition. The wave pattern established in south-eastern Karakumy indicates that several types of longitudinal waves propagate in sandy strata. They include waves refracted in sandy strata, with a velocity that increases with depth in accordance with the exponential law to the power 1/4.5, which agrees quite well with the law for the growth of the velocity in dry granular rocks; and refracted waves, reflected from the ground surface, the hodographs of whose phases are parallel. The velocity also depends on the absolute

Card 1/3

Longitudinal seismic wave ...

S/169/62/000/011/010/077 D228/D307

datum-marks, this being related to the mechanism by which sands are formed. The velocities change in dry sand from 640-860 m/sec at the surface to 1150-1400 m/sec near the ground-water level. The average velocities obtained through direct well measurements vary approximately in the same range. The refracted wave attenuates sharply in the initial part of its path. The hodographs of waves, reflected from the surface of the water-saturated layer are curvilinear, and down to the ground-water level the effective velocities determined from them are close to the calculated average speeds in dry sandy The hodographs of waves, refracted at the boundary of the water-saturated layer, are characterized by a sharp velocity jump and are practically parallel. The velocity ratio is 0.60-0.67. The boundary velocities corresponding to the refracting boundary are in the range 1820-2100 m/sec and vary if the depth of the refracting boundary changes. In the water-saturated medium the stratal velocity increases with depth more weakly than the boundary velocity, by approximately 1.5-fold. The probable reason for this is the loss of cohesion between particles in the water-saturated layer, in consequence of the solution of the cement. The velocity gradient Card 2/3

Long	Longitudinal seismic wave			S/169/6 D228/D3	S/169/62/000/011/010/077 D228/D307		
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GORYAINOV, O. A.

Avtomatika i telemekhanika /Automatic and remote control. Moskva, Gos. bibl. SSSR, 1953. 48 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 9 December 1953

GORTAINOV, O.A.; RAYNES, R.L.; GINZEURG, S.A., redaktor; FRIMIN, A.M., tethnicheskiy redaktor.

[Remote control] Teleupravlenie. Moskva, Gos. energ. izd-vo, 1954. 511 p. (MIRA 7:12)

(Remote control)

GORYAINOV, O. A.

"Principle of Construction of Remote Control Installations in Non-Filament Thyratrons" (Printsip postroyeniya ustroystv teleupravleniya na beznakal'nykh tiratronakh) from the book Telemechanization in National Economy, pp. 172-188, Iz. AN SSSR, Moscow, 1956

(Given at meeting held in Moscow, 29 Nov to 4 Dec 54 by Inst. of Automatics and Telemechanics AS USSR)

GORPAINON, U.M

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AUTHORS:

Shumilovskiy, N.N., Professor, Doctor of Technical Sciences, Gol'dfarb, L.S. Professor, Doctor of Technical Sciences, Babakov, N.A., Professor, Doctor of Technical Sciences, Goryainov, O.A., Docent, Candidate of Technical Sciences, Naumov, B.N., Docent, Candidate of Technical Sciences

TITLE:

Ya.Z. Tsypkin. Teoriya impul'snykh sistem (Theory of Impulse Systems). 724 Pages, Price 23 Rubles 25 Kopecks. Gosudarstvennoye izdatel'stvo fiziko-matematicheskikoy literatury (State Publishing House of Physics and Mathematical Literature), 1959

PERIODICAL: Elektrichestvo, 1960, No. 5, pp. 94-95

TEXT: This is a book review. The book belongs to those fundamental monographs which determine new trends in science and establish new scientific doctrines. The book contains the research results of the author in the field of the theory of impulse systems. Since 1948 the author has been dealing with the problems raised by the theory of intermittent control. He expanded this theory later and

Card 1/3

Ya.Z. Tsypkin. Teoriya impul'snykh sistem (Theory of S/105/60/000/05/28/028 Impulse Systems). 724 Pages, Price 23 Rubles 25 Kopecks. B007/B008 Gosudarstvennoye izdatelistvo fiziko-matematicheskikoy literatury (State Publishing House of Physics and Mathematical Literature), 1959

showed that the intermittent control is applicable to a wider class of technical systems, than the systems of automatic control. The author classified the various types of quantization of amounts and the types of impulse elements corresponding to them. The book consists of 6 chapters. A classification of the systems from the point of view of the methods for the transmission of signals in these systems is made in the introduction. The basic definitions are given in the 1st chapter and many characteristic examples of impulse systems are investigated. The mathematics for the investigation of impulse systems is given in the 2nd chapter. The theory of open impulse systems is explained in the 3rd chapter. The methods explained in the 3rd chapter are used in the 4th chapter for the investigation of a number of important impulse systems. The entire complex of problems from the theory of closed impulse systems is given in the 5th chapter. Typical impulse systems are analyzed in the 6th chapter. The book is written intelligibly, but it requires a certain theoretical preparation and knowledge. The present review was discussed and approved at the meetings of the kafedra "Avtomatika i telemekhanika" MEI (Chair of "Automation and Telemechanics" at the Moscow Institute

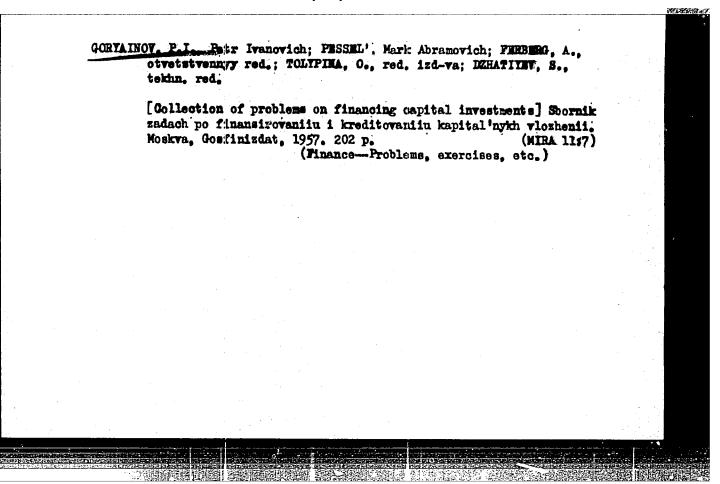
Card 2/3

Ya. Z. Tsypkin. Teoriya impul'snykh sistem (Theory of S/105/60/000/05/28/028 Impulse Systems). 724 Pages, Price 23 Rubles 25 Kopecks. B007/B008 Gosudarstvennoye izdatel'stvo fiziko-matematicheskikoy literatury (State Publishing House of Physics and Mathematical Literature), 1959

of Power Engineering) and the kefedra Mathematical Literature.

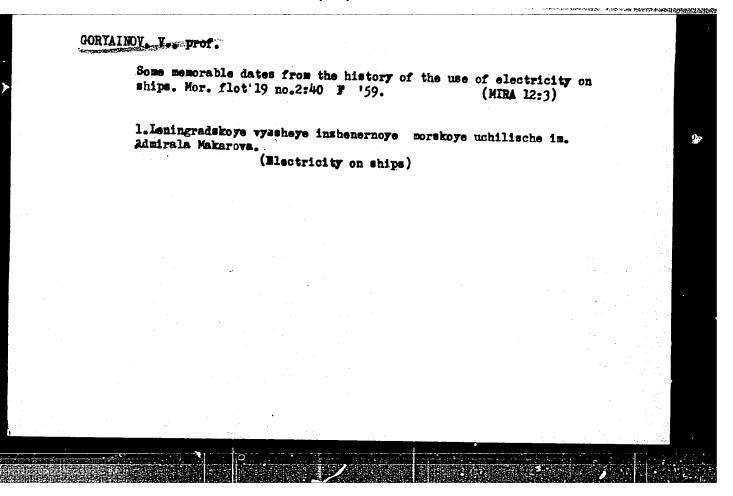
of Power Engineering) and the kafedra "Avtomaticheskiy kontrol" i regulirovaniye" VZEI (Chair of "Automatic Control and Regulation" at the All-Union Correspondence Institute of Power Engineering).

Card 3/3



TOCHILIN, Mitrofan Stepanovich; CORYAIMOV, Pavel Mikheylovich;
TOKAREV, V.A., doktor geol.-miner. nauk, otv. red.

[Geology and genesis of iron ores in the Imandra region of
the Kola Peninsula] Geologiia i genezis zheleznykh rud Priimandrovskogo raiona Kol'skogo poluostrova. Moskva, Izd-vo
"Nauka," 1964. 101 p. (MIRA 17:4)



GORYAINOV, V.A.; RATTEL', K.N.; SMIRMOV, G.N., retsensent.

[Ventilation and pneumatic transport in bast processing plants] Ventiliatisia i pneumaticheskii transport na zavodakh pervichnoi obrabotki lubianyth kul'tur. Moskva, Gos. nauchno-tekhm. izd-vo Ministerstva promyshlennykh tovarov shirokogo potreblenits SSSR, 1953. 212 p. (MIRA 7:7)

(Bast) (Factories--Heating and ventilation)

GORYAINOV, V. A.

Stratigraphy of the Silurian Deposits in the Middle Reaches of the Vilyuy River in the Portion From the Estuary of the Appaya River to the Threshold of Malyy Khan

The author briefly expounds the stratigraphic sequence of the rocks of the Ordovician and Silurian, subdivided into four strata. He presents a small list of silurian brachiopods and corals for the purpose of establishing the age of the highest stratum. (RZhGeol, No. 5, 1955). Uch. Zap. Saratovsk. wm-ta, 38, 1953, 85-87.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

and conditions of the accumulation of deposite of the multicolored denosits of the much south of the Coshchiy Syrt and the Orenburg sub-Wrals." Saratov, 1958, 23 pp (Min of Higher Education USSR. Saratov State Univ im N.G. Chernyshevskiy) 150 copies (KL, 42-58, 113)

- 13 -

GORYAINOV, V.A.; OCHEV, V.G.

Stratigraphy of Triassic sediments in the portion of the Ural Mountain region in Orenburg Province. Izv. vys. ucheb. zav.; geol. i razv. 7 no.4:16-22 Ap '64. (MIRA 18:3)

1. Saratovskiy gosudarstvennyy universitet.

GORYAINOV, V.F.

Klectrocoagulation as a method of treating hemangiomas.

Pediatriia 41 no.11269-71 Nº62 (MIRA 1724)

1. Iz detskoy khirurgicheskoy kliniki (zav. - prof. N.V.Zakharov) Saratovskogo meditsinskogo instituta.

GORYATERY, V. 1.

APPROVED FOR RELEASE: 03/18/2001s of GIA+RDP86=00513R000516410002-BLANKS IN HYDRAULIC PRESSES. Sub 14 May 52, Moscow Machine-Tool and Tool Inst IMENI I. V. STALIN (Dissertation for the Degree of Candidate in Technical Sciences)

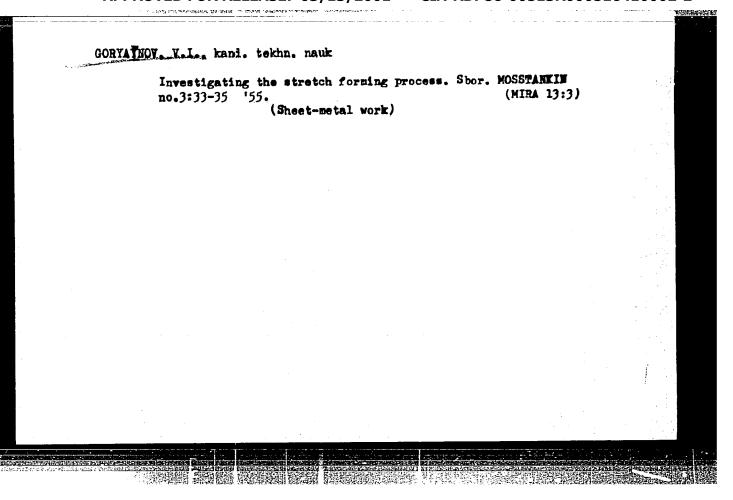
50: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

CCHYAINCY, V. I.

Dissertation: "Investigation of Some Problems of Hydraulic Stamping and Compacting of Dies," Cand Tech Sci, Moscow Machine Tool and Tool Inst ireni I. V. Stalin, 5 May 54.

(Vechernyaye Moskva, Moscow, 26 Apr 54.)

SO: SUM 243, 19 Oct 1954



Shelterbelts as means for controlling dust storms in Stavropol Territory. Zenledelie 8 no.8:37-40 Ag '60. (MIRA 13:8)

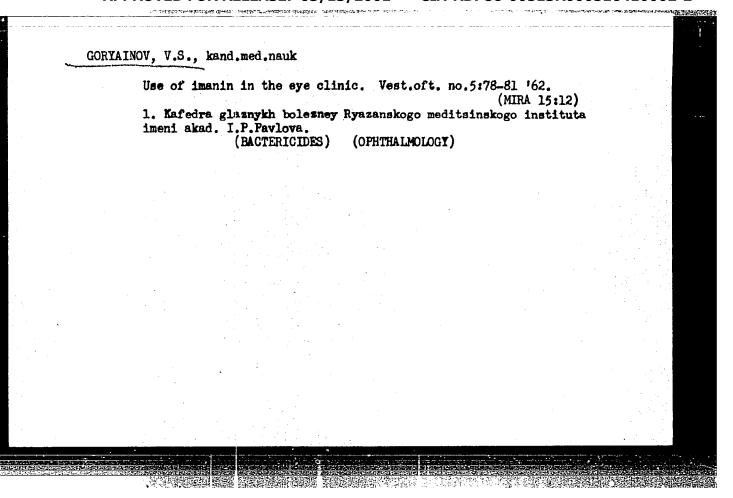
1. Stavropol'skiy sel'skokhozyaystvennyy Institut. (Stavropol Territory--Dust storms) (Windbreaks, Shelterbelts, Etc.)

GORYAINOV, V. S.

"War Injuries of the Organs of Sight in the Great Fatherland War and Their Medical Treatment in an Army Area." Sub 19 Jun 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.



NIKULINA, N.B.; CORYAINOV, V.S.

Use of ethamine, a new local enesthetic preparation in ophthalmological practice. Nauch. trudy Riaz. med. inst. 15:113-115 '62.

(MIRA 17:5)

1. Kafedra glaznykh bolezney (ispolnyayushchiy obyazannosti zav. kafedroy - kand.med.nauk V.S.Goryainov) Ryazanskogo meditsinskogo instituta imeni Pavlova.

29550 s/106/61/c00/011/002/006 A055/A127

6.9400

AUTHORS: Tikhonov, V. I., and Goryainov, V. T.

TITLE: Effect of normal noise and limiters.

PERIODICAL: Elektrosvyaz', no. 11, 1961, 13 - 24

TEXT: This article deals essentially with the determination of the one-dimensional probability density of noises at the output of the filter-limiter-filter systems. An experimental device used for this determination is described. The normalization of the limited noises is also treated. The experimental device is shown in Figure 1. A normal Γ HII-1 (GVSh-1) noise generator is used as noise source (N. Gen.) generating noise with a spectrum within the $100-2\cdot 10^{6}$ cps range. The noise is applied to the resonance amplifier (Amp₁), whose resonant frequency $f_0=110$ kc and whose passband can vary by steps and take the following values: $\Delta f_1=1.5,\ 3.75,\ 6.5,\ 11,\ 21,\$ and 38 kc; the amplitude-frequency characteristics are well approximated by the Gaussian curves

 $K(\omega) = K_0 \exp \left\{ -\beta (\omega - \omega_0)^2 \right\}$ (1)

Card 1/8/)

29550 \$/106/61/000/011/002/006 4055/4127

Effect of normal noise and limiters

The normal stationary noise with the energy spectrum determined by the amplitude-frequency characteristic of Amp₁ acts upon the input of the symmetrical two-stage limiter (Lim.). The RMS-value of the noise at the limiter input is measured by a thermo-voltmeter consisting of a cathode follower (C.F.), a thermocouple (T.C.) and a galvanometer (Gal₁). From the limiter output the noise is applied to the resonance amplifier (Amp₂) tuned to $f_0 = 110$ kc and whose passband is $\Delta f_2 = 9$ kc. The noise is then applied to a photometric device for determining the one-dimensional probability densities. This device consists of an oscillograph (Osc.), a photoelectron multiplier (P.E.M.) and a galvanometer (Gal₂) measuring the multiplier current. If a normal stationary quasi-harmonic noise

$$\xi(t) = A(t) \sin \left[\omega_0 t + \varphi(t)\right] = A(t) \sin \theta(t), \tag{2}$$

A(t) being the envelope of the noise with the Rayleigh probability density

$$W_1(A) = \frac{A}{6\xi} \exp(-\frac{1}{2} \frac{A^2}{6\xi})$$
 (3)

and φ (t) being a random phase uniformly distributed in the interval (- π , is acting on the input of an inertialess symmetrical limiter with a volt-ampere chacard 2/89

29550 8/106/61/000/011/002/006

Effect of normal noise and limiters

racteristic $\eta(t) = g[g(t)]$, the noise $\eta(t)$ at the limiter output will be,

$$\eta(t) = B(t) \sin Q(t) \tag{4}$$

where the envelope B(t) is determined by the relations:

$$B(t) = \begin{cases} SA(t), & A \leq \alpha \\ H, & A > \alpha \end{cases}$$
 (5)

S = H/Q being the steepness of the limiter characteristic. The one-dimensional probability density for B(t) will be:

$$W_1(B) = \frac{B}{\sigma_1^2} \exp\left(-\frac{1}{2} \frac{B^2}{\sigma_1^2}\right) + NS(B - H), \quad B \leq H$$
 (6)

where

$$6_1 = S6_{\xi} \tag{7}$$

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Effect of normal noise and limiters

and
$$N = \exp\left(-\frac{1}{2} \frac{H^2}{\sigma_1^2}\right)$$
 (8)

The combined probability density is:

$$W_{2}(B, \theta) = \frac{1}{2\pi} \left\{ \frac{B}{\sigma_{1}^{2}} e^{-\frac{1}{2} \left(\frac{B}{\sigma_{1}}\right)^{2}} + e^{-\frac{1}{2} \left(\frac{H}{\sigma_{1}}\right)^{2}} \delta(B - H) \right\}, \quad 0 \leq B \leq H, \quad (10)$$

Introducing new variable $z=\sin\theta$ and $\eta=B\sin\theta=Bz$, the authors obtain the final formula for the one-dimensional probability density of the random signal $\gamma(t)=B(t)\sin\theta(t)$ at the output of the symmetrical limiter:

$$W_{1}(\eta) = \frac{1}{\Im \sqrt{H^{2} - \eta^{2}}} e^{-\frac{1}{2} \left(\frac{H}{\sigma_{1}}\right)^{2}} + \frac{2}{\sqrt{2\pi}\sigma_{1}} e^{-\frac{1}{2} \left(\frac{\eta}{\sigma_{1}}\right)^{2}} \times \left[\Phi(v) - \frac{1}{2}\right], \quad |\eta| \leqslant H$$
(16)

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A055/A127

Effect of normal noise and limiters

where

$$\Phi(V) - \frac{1}{2} = \frac{1}{\sqrt{2\pi}} \int_{V}^{V} e^{-\frac{1}{2}x^{2}} dx, \quad V = \frac{1}{6} \sqrt{H^{2} - \eta^{2}}.$$
 (15)

Simplified formulae are obtained for the particular cases of weak medium and strong limiting. For weak limiting ($\sigma_0 \gg \sigma_E$):

$$W_1(\eta) = \frac{1}{\sqrt{2\pi} \sigma_1} \exp\left\{-\frac{1}{2} \left(\frac{\eta}{\sigma_1}\right)^2\right\}$$
 (18)

For medium limiting $(\delta_0 = \delta_{\xi})$:

$$W_1(\eta) = \frac{1}{2H}, \quad |\eta| \leqslant H. \tag{18"}$$

For stronglimiting ($\delta_{\xi} \gg \delta_0$):

$$W_{1}(\eta) = \frac{1}{2} [\delta (H - \eta) + \delta (H + \eta)]. \qquad (18"')$$

The analysis of the experimentally obtained graphs leads to the following conclu-

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Effect of normal noise and limiters

sions: 1) for $v = \frac{\sigma_L}{\sigma_0} < 0.3$, the one-dimensional probability density of the noise $\eta(t)$ is approximated satisfactorily by formula (18'); 2) for v = 1.2 + 1.3, the noise at the limiter output can be considered as uniformly distributed in the interval [-H, H]; 3) for v > 3, formula (18"') can be used for the determination of the probability density. Normalization of limited noises. The noise $\eta(t)$ whose distribution differs from the normal one is normalized to a certain extent (when passing through amplifier Amp₂), depending on the magnitude of the relative limiting threshold and on the relation between the passband of Amp₂ and the width of the energy spectrum of $\eta(t)$. It is expedient to choose the excess coefficient

 $Y_2 = \frac{M_{11}}{M_2^2} - 3 \tag{21}$

as the quantitative criterion of the degree of approximation of the probability density to the normal one. In (21), M_2 and M_4 are, respectively, the central moments of the second and the fourth order of the noise $\xi(t)$ at the output of Amp₂. The theoretical computation of these moments being difficult, an experimental method was resorted to, using the device of Figure 1. The one-dimensional

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Effect of normal noise and limiters

probability densities of the noise ξ (t) at the output of a filter-limiter-filter system were determined for different relative limiting thresholds of the normal input noises and for different relations between the energy spectrum width of these normal noises and the passband of Amp2. The thus obtained experimental data made it possible to calculate M_2 and M_3 . The obtained graphs show that the excess coefficient decreases when the limiting threshold of the input noises ξ (t) increases. For large thresholds, the noise η (t) at the limiter output proves but little different from the normal one. For small values of the threshold, the noise η (t) differs sharply from the normal one and is substantially normalized by the linear amplifier Amp2. The last part of the article is a theoretical analysis of the noise spectrum at the output of the limiter. There are 9 figures, and 10 references: 8 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: J. Galejs. Signal-to-noise ratios in smooth limiters. "Trans.IRE.", 1959, No. 2, IT-5. R. F. Baum. "The correlation function of smoothly limited gaussian noise". "Trans. IRE", 1957, No. 3, IT-3.

SUBMITTED:

July 19, 1961

Card 7/8

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8/106/62/000/004/003/010 A055/A101

9,3280

AUTHORS:

Goryainov, V.T.; Kirillov, M.A.

TITLE:

Experimental investigation of the effect of normal noises on the

difference detector

PERIODICAL: Elektrosvyaz', no. 4, 1962, 21 - 27

TEXT: This investigation of the effect of stationary normal noises was undertaken for determining the one-dimensional probability densities and the average number of overshoots of the noise voltage at the output of a difference detector for a given relationship between the width of the energy spectrum of the input noise and the passband of the difference detector. The detuning of the center frequency \mathbf{f}_0 of the input noise energy spectrum with respect to the resonant frequency \mathbf{f}_1 of the detector was varied during the investigation. The schematical diagram of the measuring system is shown in Figure 2. The fluctuation noise supplied by the noise generator NG is fed into the difference detector DD through a wide-band amplifier (the connection diagram of the detector and of the amplifier is reproduced in the article). From the detector output, the fluctuation noise is applied to two measuring circuits I and II. The circuit II per-

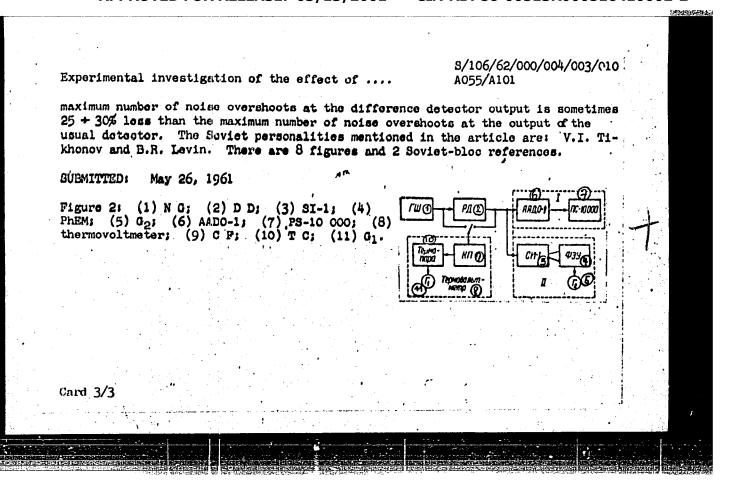
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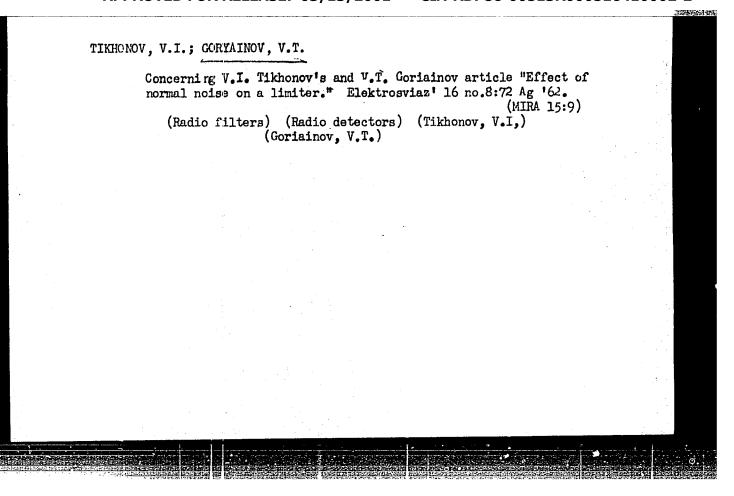
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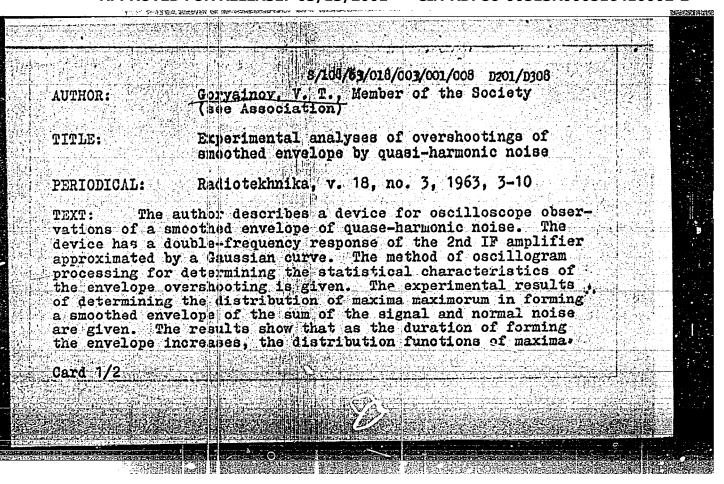
Experimental investigation of the effect of ...

mits the determination of the one-dimensional probability density of the noise voltage with the aid of an oscillograph "CV-1" (SI-1), a photo-electron multiplier (PhEM) and a galvanometer G2 measuring the multiplier current. The circuit II determines the average number of noise-voltage overshoots per unit of time. It contains a level analyzer "AAAO-1" (AADO-1) and a registering device "NC-10 000" (PS-10 000). The level analyzer is a trigger device, operating every time when the investigated noise voltage exceeds the analyzer operating threshold. By varying this threshold and counting up the number of operations with the aid of the registering device, it is possible to determine the average number of noise overshoots per unit of time, provided that the analyzer resolution time is much shorter than the correlation time of the investigated noise. The RMS noise voltage at the input and output of the difference detector is determined with the aid of a special thermovoltmeter (cathode follower CF, whose load is the thermocouple TC); the thermocouple current is measured by the galvanometer G1. Several graphs are reproduced, showing the normalized one-dimensional probability density of the noise voltage at the output of the detector and the average number of noise overshoots. The authors compare the thus obtained experimental results with the theoretically calculated average number of overshoots at the output of the usual detector of the envelope working in linear detection operating conditions.

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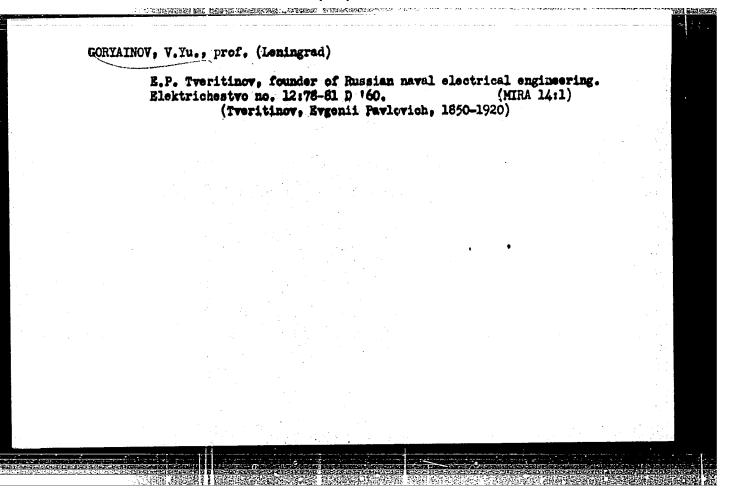




maximorum becof overshooti minimorum shi	S/108/63/018/003/001/008 analyses of D201/D308 somes narrower and shifts towards the large values ngs with the distribution functions of minima fting towards smaller values of overshootings. both classes of functions have the same limit. The are given physical interpretation. There are 7 Naucimo-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova (Scientific and
SUBMITTED:	Technical Society of Radio Engineering and Electrical Communications im. A. S. Popov) January 30, 1962
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Distribution of the overshoot duration of the smoothed envelope of quasiharmonic noise. Radiotekhnika 18 no.8:3-9 Ag '63. (MIRA 16:10)			
1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.			
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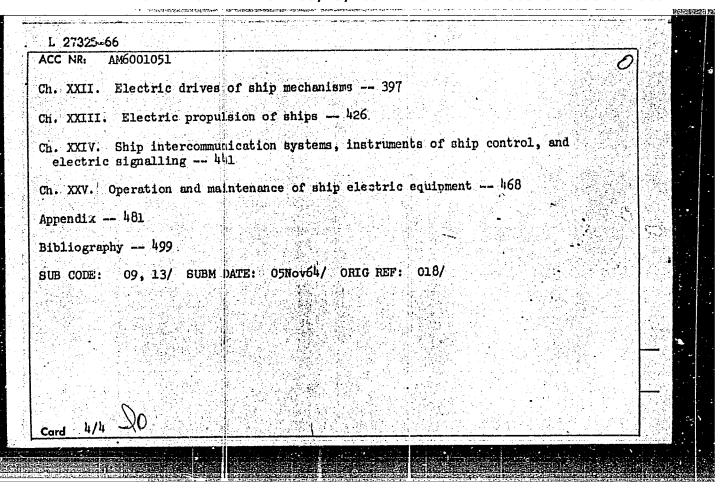
L 27828-66 EWT(d) SOURCE CODE: UR/0108/66/021/001/0031/0046 ACC NR. AP6004826 AUTHOR: Tikhonov, V. I. (Active member); Goryainov, V. T. (Active member) ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication (Nauchno-tekhnicheskoya obshchestvo radiotekhniki i elektrosvyazi) TITLE: Detecting random signals & SOURCE: Radiotekhnika, v. 21, no. 1, 1966, 31-46 TOPIC TAGS: signal detection, random signal, signal noise separation ABSTRACT: Based on 1929-63 Soviet and 1937-63 Western publications, an extensive review is presented of the signal-plus-fluctuating-noise detection by amplitude, frequency, and phase detectors. The Amplitude-detector Section covers inertialess detectors (linear, square-law), inertial, and envelope detectors. The Frequencydetector Section covers inertialess and inertial detectors, as does the Phase-detector Section. Final formulas are given, and curves of the average value, dispersion, correlation function, and single-variate probability density of the output voltage of the above detectors are shown. In some cases (inertial detectors), for lack of theoretical formulas, experimental data is presented. "K. B. Chelyshev, V. P. Sokolova, I. F. Zaroshchinskiy and Yu. G. Shchors took part in the experiments involved. " Orig. art. has: 13 figures and 65 formulas. SUB CODE: 09 / SUBM DATE: 29Oct63 / ORIG REF: 036 / OTH REF: 027 Card 1/1 78 UI)C: 621.376



L 27325-66 AME001051 Monograph ACC NR: Bernshteyn, M. B. (Docent); Goryainov, V. YU. (Professor); Deniscv, V. V. (Engineer, Captain); Khomyakov, N. M. (Doctor of Technical Sciences, Professor) Electrical engineering and electrical equipment for ships (Flektrotekhnika i elektrooboruđovaniye sudov) Moscow, Izd-vo "Transport," 1964. 504 p. illus., biblio. Errata slip inserted. 10,300 copies printed TOPIC TAGS: electrical engineering, marine equipment, electric equipment, power supply, power plant PURPOSE AND COVERAGE: This book has been approved by the Department of Educational Institutions of the Ministry of Sea Transport as a textbook for students of mechanical specialties of maritime and Arctic schools of the ministry. It may also be useful to crew members concerned with operation of shipboard electrical equipment. The book deals with basic information on the principles of electrical engineering and magnetism. Characteristic features of electromagnetic energy, methods of its generation, transmission, and practical applications aboard ship are discussed. Circuit diagrams of shipboard electric drive controls are given. TABLE OF CONTENTS: Foreword -- 3 Introduction -- 5 Card 1/4

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25 (2) AUTHOR:

Goryainov, Ya. M., Chief Mechanic

SOV/92-58-10-5/30

TITLE: The V2-300 Engine Operates on Oil Well Gas (V2-300 rabotayet na poputnom gaze)

PERIODICAL: Neftyanik, 1958, Nr 10, pp 6-9 (USSR)

ABSTRACT: The author states that in drilling operations the V2-300 diesel engine, which consumes a great quantity of scarce liquid fuel, is most frequently used. If some of these diesels were converted into engines operating on natural gas, a considerable quantity of diesel fuel would be saved. For this reason V.N. Kovalevich, mechanic of the No. 6 oilfield of the Stanislavneft' Petroleum Administration, suggested that the above engine be remodeled so as to enable it to operate on natural gas. In 1956 the remodeled V2-300 engine was tested at the PES-190 electric power plant equipped with a 190 kwt generator. Spart plug ignition was successfully used to start the remodeled engine, the maximum rating capacity of which was 330 hp. It was found, however, that the exhaust gas temperature reached 540° C and oil temperature 100° C; therefore, it was deemed necessary to lower it. Since

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The V2-300 Engine Operates on Oil Well Gas

SOV/92-58-10-5/30

efforts to reduce this temperature failed, it was decided to leave the diesel engine unchanged and to equip it only with the electric ignition system and natural gas supply system. At present 4 remodeled engines consuming natural gas operate at enterprises of the Stanislavneft' Administration. In one of these engines, which drives the 4MGR pump, the compression ratio was lowered from 15 to 13, and 18 mm automobile spark plugs were used. The author describes the gas supply system of the remodeled engine and shows it in Fig. 1. The mixture of gas with air occurs in a chamber of the equipment shown in Fig. 2. The gas-air mixture is controlled by a throttle valve. The volume of the gas-air mixture changes automatically by controlling the rpm. The 12 volt battery (Fig. 3), described by the author in detail serves as an ignitor. Performance characteristics of the V2-300 diesel engine remodeled to operate on natural gas are given in Fig. 3, 4 and 5. The basic parameters of this engine which operates on natural gas and produces 8000-10000 cal/m³ are as follows: rated capacity at 1500 rpm 300 hp, maximum capacity 330 hp, minimum idle running rpm 500-550, maximum compression 70 kg/cm, spark advance 27-30

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The V2-300 Engine Operates on 011 Well Gas

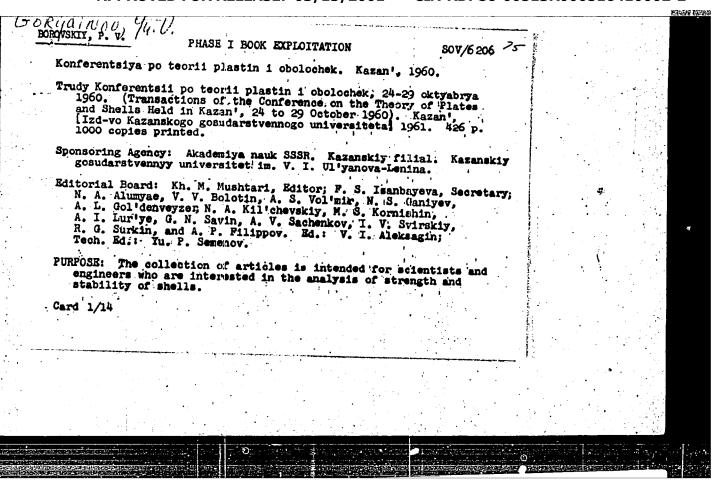
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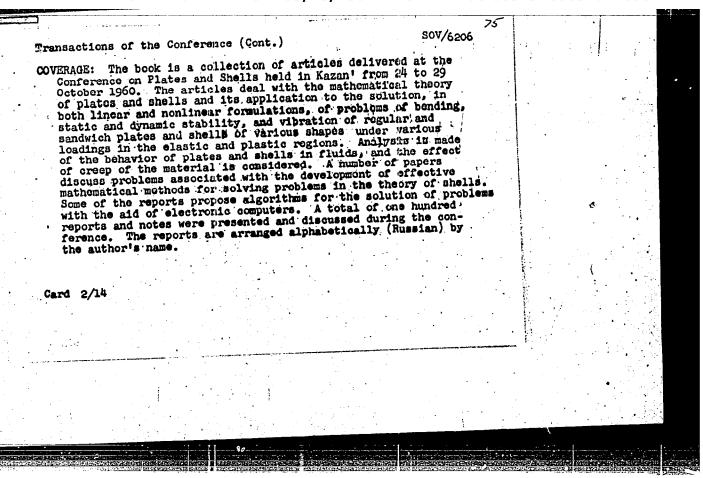
degrees, gas consumption from 46 m³/h to 90 m³/h, temperature of exhaust gas 420°-540° C. The experience of the Stanislavneft' Petroleum Production Adminstration indicates that such engines may be successfully used for driving the U8-3 pump of the 5-D drilling rig. There are 5 figures.

ASSOCIATION: NPU Stanislavneft' (The Stanislavneft' Petroleum Production Administration)

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Use of nonmetal chemically stable materials for the equipment of sulfite woodpulp production. Bum.prom. 32 no.1:22-25 Ja '57.

1. Mauchno-issledovatel skiy institut khimicheskogo mashinostroyeniya.

(Woodpulp industry--Mquipment and supplies)

807/122-59-2-13/34

AUTHOR: Goryainova, A.V., Candidate of Technical Sciences

TITLE: The Use of Plastics in Chemical Matthe-halding (Primaneniye

plastmass v khimicheskom mashinosurcyenii)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 2, pp 37-39 (USSR)

ABSTRACT: Various chemically resistant plastics are described:

Faolite: a thermosetting phenol-formaldehyde asbestos composition available in sheet form and as uncured raw stock. Easily machinable and can be bonded. Resistant to acids of medium correctivation but not to highly

to acids of medium concentration but not to highly oxydising media. Can be used to 150 to 1600.

Vinyl plastics: frequently used where greater chemical resistance is required than that of faolite. Stable to alkalis, hydro flouric acid and H2SO4 + HCl mixtures. Working temperature not above 40 to 60°C. Can be formed on wooden tools. A storage ressel and column and pump from vinyl plastic are illustrated in Fig 1 and 2.

Polyethylene: good stability at low temperature to the majority of inorganic acids and alkalis. Can be heat sealed and used for lining metal surfaces. Can be sprayed

Card 1/2 on to metal and other surfaces at a rate of 1.2 to

SOV/122-59-2-13/34

The Use of Plastics in Chemical Plant

1.5 square metres per hour to a thickness of 0.5 mm using a pistol developed at NIIKhMASh.

Polystyrol: transparent thermoplastic with rather lower strength than polyethylene, easily formed and useful for transparent vessels but not suitable for pressure vessels as it is liable to fissuring through embrittlement. Shock resisting elastic polystyrol is now available for lining purposes. Fig 3 illustrates a refrigerator door lined with elastic polystyrol.

P.T.F.E.: extremely high chemical resistance.

Available in two forms, "Flouroplast 3" and "Flouroplast 4", the former CF2 = CFC1 and the latter CF2 = CF2. "Flouroplast 4" is comparatively soft and will cold-flow at loads of 30 kg/cm². Can be used from -195 to +250°C. "Fluoroplast 3" is usable between -195 and +100°C in unloaded condition and can be used in the form of suspensions for corrosion protection of metallic surfaces. There are 3 figures.

Card 2/2

CHORLESONETHER I ADMINISTRATIONS OF CHORLESON

PHASE I BOOK EXPLOITATION SOV/5708

Goryainova, Avgusta Vasil'yevna

- Stekloplastiki v mashinostroyenii (Glass-Reinforced Plastics in Machine Building) Moscow, Mashgiz, 1961. 214 p. Errata slip inserted. 10,00 copies printed.
- Reviewer: A. S. Gulyayev, Engineer (Deceased); Ed.: Ya. G.
 Alaverdov, Engineer; Tech. Eds.: T. F. Sokolova and L. P.
 Gordeyeva; Managing Ed. for Literature on Chemical and Textile
 Machine Building: V. I. Rybakova, Engineer.
- PURPOSE: This book is intended for technical personnel in machine building.
- COVERAGE: Fundamental information of the physicochemical and mechanical properties of glass-reinforced plastics is presented. Equipment and techniques for molding glass-reinforced plastics into various shapes are described. Examples of the application of glass-reinforced plastics in machine building and other

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Plastics as construction materials

SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 8, no. 3, 1963, 245-260

TOPIC TAGS: thermoplastic materials, polyethylenes, polypropylynes, polyformal-dehyde, foam plastics, Teflon, polyamides, thermosetting materials, cloth laminates

ABSTRACT: The article contains a broad survey of plastics which can be used as construction material. The plastics industries of the U.S.A., Italy, Holland, Federal German Republic, France, and England are compared to that of the SSSR. The various properties of thermoplastic materials, polyethylenes, polypropylynes, polyformaldehyde, fosm plastics Teflon, polyamide, thermosetting materials, and cloth laminates are described in detail. Authors note the following trends in the use of plastics for construction purposes: (i) manufacture of apparatus, units and parts for machines from plastics, which are the most suitable materials for obtaining the required design; (11) the production of chemically-stable apparatus

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